ANT/MCL/12

0028

1969

(3)

I. McLEOD

B.M.R.

INDEX

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8, 15-21	West of Rainbow
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30-	East of Lonesome
37	Trail to dirt

ss/ver
Abst. Inc 651, Spec 101.
10
10

IR 101
68°49'S, 77°53'E

IR 102
do

MPB2/24, 25

Landing Bluff - Davis. 18/2/69.

M862/24, 25

Photos (B+W, 2) of front of Polar Record Tongue, S 90 coast of Bolingen Peninsula.

Raven Isles

651. East of Villa I.
Photo 75/320, 8065
Line to compass area, but more "Leeward" some very low (spec 101) Also spec of BQ4F grains (spec 2) Bedding N340, V or 80°E possible lin. 75°S. Some vari in plan. Pebs + fg mica Mica flakes oriented in bedding.

IR 103
68°50'S, 77°53'E
IR 104 A
104 B
do.

75/320, 4065

652. Well bonded, brown N120, 705, limestone unit, det bed of "C.R." and "Sens." with width abt 1-5 m wide. Part of each [illegible] Sens form abt 35% of total [illegible]

[illegible]

on slightly weathered limestone bed.

Same as above but Sens. present up to 10%, other fossils [illegible] in 0.2 cm size up to 2 cm across.

Part of QT, on a low bed 1 [illegible] (Apic 104 same [illegible] fossil [illegible]

write c/s

IR-105
68°50'S, 77°57'E

IR-106
do

? Photos 862/26, 1981

Photos 1981/8,9
862/27,28.

Photo 75/320, 8005
6E3 Bond, 2-5° 60°S,
[illegible] 10-20
ft., in [illegible]
CR, & [illegible]
[illegible]
a few [illegible]
[illegible]

Little [illegible] CR, not
much left.

1988, 862/27

Photos of [illegible]
+ [illegible] (layer
colors of each) on E side
of valley.

1989
862/28

IR 107
68°51'S 77°56'E

IR 108 A
B

do.

Photos 198/12, 13.

6544 Photo 75/3720, 8064

[illegible] N 60, 20 S, lon 20° W.
Banding [illegible]
on S. side, [illegible] Pair
& pink fabric on cord in
abdom; bill, & nostrils
[illegible] head mostly
covered. Upper pink, lt CR,
& [illegible]
[illegible] for dk CR.

[illegible] N of the 3 [illegible]
banding [illegible]
[illegible], CR & pink [illegible]
in prop to [illegible], VO, no.
Some [illegible], [illegible],

1981/12/13
Photo (dk) [illegible] of pink.

Pink has little [illegible],

6

creamy meaty has sporadic gum.
Urs have felsic vcs, c.m.c. + dmic.

555 See also p. 16.

[illegible]

I.R 116
69°28'S, 76°04'E.

I R 117
do

I R 118 A
B
do

659 [illegible]
Photo 93/3c, 8184
BGYE [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
(Spec 117) [illegible]
[illegible]
[illegible]
[illegible]
(Spec 118A) [illegible]
[illegible] (118B)
[illegible]
[illegible]
Cont p14.

1R 119
69°28'S 75°50'E.

1R 125 69280195
do

1R 126
do

660. Island 90 m. in eastern Robinson Sp. (actually 2 islands)
Photos 91/3B, 8085 (vertical views)

126

IR120
69°28'S, 75°50'E

IR121
do

IR122
do

IR123
do
6928 0194

IR124
do.
6928197.

658. Lonesome Camp.

Com bistort, fid grass & whispy bending of bist. Few bare spots, 5-10 cm wide; a few wid ~~[illegible]~~ cobwebs throughout with some bending, few bare pts & more bist.

Path run to ~~[illegible]~~ Lonesome 655

659 (cont'd) SW to NE section

from air seems mainly brown stained at first, but a few some white bands, dipping towards coast at abt 70°; rather flaggy thing. Southern side white bands. Strikes at loc 657, and rock gen looks like that at that loc.

On ground

White rock is bit altered gen, not many grains, some veins of coarser qtz, and peg. material, not banded; dips rather uneven;
Peg. veins up to 10 cm wide, lenticular, tapering out quickly. Red garn nodules up to 1 cm across

common in parts of area, esp where it contains more biot than average.

Banding is wispy biot type. Str N160, dip 60°W

See also photos 9:13B, 21:20
(illegible)

655 Headland 80, west side.
Ramith Glacier.
(Airphoto Photo 75/320, 8113
Rocks like those at Power
Is, mainly "country rock",
not many dark bands —
banded biot gran ± fld gn
some bands rich in gran,
and themselves well banded;
other bands with whispy
layering of ~~gran~~ biotite.
Lobe 8th regularly N190, 20 W.

On north side of melt lake —
massive bed of lt. col. rock,
± fld gneiss & a little biot
and sporadic gran, biot
5-10%, gran 10%, seems to
contain lots of qtz, Biot has a
whispy banding.

Biot. rich bands generally

also long and straight. In places they seem to dyke to cut across regional trend at very sharp angle - possibly due to folding -, and these bands lens out quickly over short distance.

A few thin fg felsic veins up to 5 cm wide, cut acutely across foln. Cg. gamet fld. veins also cut across foln, most 7-10 cm wide.

No best dykes to be met dyke, str approx N160, 30E, 1½ m. wide, well banded parl to margins. Contact & enclosing GDF gneiss (with a little hbl) is quite well defined. Mineralog of dyke similar to new enclosing rock.

17

IR 109 69280189
69°11'S, 77°20'E

IR 110 69280190
do

Grt dyke has more brok. Possible shear bands parallel to margins, marked by thin layers of biot which are so close that they appear from afar dikes of biot rich bands. This possible shearing may be cause of bending of dyke part to its margin. Spec (spec 109) of dyke, cont. a biot rich band.

Spec (spec 110) of fairly typical gdsy biot qtz fld gn. Gneiss cont more biot than spec in places, and spec is often more coarse grain size than much of gneiss, which gn. is clmg rock.

Gneiss generally is better

Photos 86d29
198/14-15.

banded than at Ramos; biot content rather higher, no pink veining as occurs at Ramos; epidote is uniformly distributed in places.

Photo (hw + col) 80429 of met. dyke and col. photo 198115 of fairly typical banded - ish with typical fine banding. 198114

Rock on either side of met. dyke is more massive than typical rock.

Very few massive biot rich bands such as occur in Ramos, and those that occ. mostly less than ⅓ metre thick, and very discontinuous. Some biot-rich bands cont. nodules of lavender

garnet up to 1 cm across, forming up to 20% of whole rock.

Iron ox, rock on adjacent islands very close to that found on Grenada; some massive beds, but mostly finely banded rock which seems to cont. little past and present. Rock is iron stained in places.

Mean moisture at time of ice which overlies eastern exposure.

Ash + dip fallen uniformly

though the possibly during
anticlockwise near eastern
end of o'clock.

Headland 30 metres, 7 miles west of Ramuth Sd. (aerial)
Photo 75/320, 8108
Rocks same strike to those at loc 655.
See air photo for strike-dip 000°S.
Lineation alt N100°.

Headland 90m, 5 miles east of Amanda Bay. (aerial)
Photo 75/320, 8105
Rocks similar to loc 655.

Eastern most island widely ft. coloured rock.

One headland 90, dip alt 30°S. str (from air photo) N 90.
Dip + str. fairly uniform

Headland 90 from air photo
mainly light rock, patchy pale
finely banded rock similar to
that at loc 655.
Rock fresh comparable
with that at loc 655

656 Headland 80 metres at N.E. corner Dundas Bay.

Photo 75/120, 8102.

From air, rock much more massive in appearance, no marked banding, reddish brown colour! Possible granite vein 4-5 m wide, creamy colour

On ground

Coarse pink-red feld gn, without marked banding of rock at loc 655. Texture more uneven, gneiss contains bands of creamy rock and of reddish quartz-fld gneiss. Banding of gneiss is much

IR III 69280191
69°14'S 76°52'E

finer than at loc 655, more the whispy type or bands only 1-2 cm thick. Gran size vary. from one band to another.

Str gen N/3W 0, 80° W to V. Some contortions in folds in places, more curves and swirls than folds.
Rock gen as desc. above, rather iron stained mostly, some clusters of garnet. Very little massive hbl. rich rock ("xenolith") such as occ. in Rose Group.

One band abt 1 m. wide cont. garn. and felsic veins, some veins pegmatitic but most concordant. Spec of band (Spec 1R111). Garnet

IR 112 69280192
69°14'S 76°52'E

spec is dusky, but in parts of band, esp near top, it forms clusters abt 1 cm across.

Some folds seem to plunge to N180° at 30°. Some folds seem more like drag folds.

Difficult mostly to get plunge of folds.

Spec of biot gran zone folds in (spec 112).
Incip cont. clusters of red garn in places, and some bands tend to be rich in garnet, up to 50% in parts. These bands up to 5 cm wide, and also rich in biot.

From air, small islands just south of lon 65b 45m. Small island nearest nunatak visited has massive light col. bands along south edge.

Nunatak 100 m at head of Amanda Bay. (Aerial) Photo 91/3B, 8111. (missing labelled) Rocks seem to be banded type. Str abt 240(M), 40°N. in easternmost part.

Str from photo abt 270°, T 10°W. Most of rest of exposures seem massive, probably lon 65b

Banding also in western

most exposure. Visibility of banding may be function of vertical outcrop revealing banding better. This weathering exposure is elongated along strike of rocks.

Nunatak 110 ("Cowell Island") on N end of "Amanda Glacier" (Unnamed)
Photos 75/320, 2096

Rocks dirty gray massive, probably to be 656, mainly uniform reddish brown, some fine banding, probably like 656; no dark bands

Ice pack to west side of hill

Pit #170(T)

invert of vert. slip (90°) to either side.

657. Headland south of Island 65 m, 6 miles SW of "Amanda Glacier".
Photos 91/3B, 2105. (wrong heading)
75/321, 9093

From air, eastern most headland ~~b~~ (loc A) has much light coloured rock, bed dips N 310 (M) dip very steep to west.

On main exposure (centre of group, and projecting furthest north) rocks from air look very like those at loc 655, banded light + dark, light person.

On ground.

Mixture of rocks, some hist gam felds gn finely banded or schistose binding;

some felds gn. with very little gam or hist but with some very thin bands rich in hist, which - weathers much more contorting.

Some dark hist rich massive bands, one at least 2 m. thick.

General str 11220, dip vert or 80° W. Folds dip to S with vert. However, some fine appear axes of much lower pitch, but this doubtful as cannot see properly on

IR 114 6928019 3
69°21'S 7.6°30'E

exposure.

Massive dark-colored cont. light-bands 1-2 cm wide, and also cg. qtz-fld veins several cm wide.

Spec (Spec. L. P 114) of massive dark rock with part of cg. concurrent qtz-fld vein. Some of the cg. veins cont much pink or red fld

Parts of massive qtz-fld rock (which does cont. some pink and a little gam when seen in fresh exposure) Coarse cg. mass of gam up to 10 cm across, & brot;

This rock in places also cont near-concordant gam-qtz-fld veins.

Some brot bands are

IR 11.3
69°21'S 76°30'E

IR 1.15
69°21'S 76°30'E

well defined, and sharply defs. from enclosing rock.

Spec (spec IR 113) of massive qtz fld rock, and of banded rock & more biot. (spec IR 115) Spec of IR 115 is also fairly typical - finely interbedded & massive qtz fld rock.

Some reddish bands, probably due to iron staining of veins in massive qtz fld rock

In air

Bands of massive lt col. rock seem to cut across banding of darker rock in places - appearance possibly due to

folding - magic more apparent than real.

At loc c. bed is along narrow little ridge, (esp prominent near send) dip seems to be east at abt 20°

Other o'crops fairly massive

At loc D lot of massive light beds, prob same as at loc 65 on ground.
Trend north along length of o'crop (past to east).

Inland E also well bedded, white beds alternating & brownish beds. Southern part of inland is reddish colour, remainder grey. Reddish colour prob. due to iron staining

Isai around eastern Larsemann

South east part of hills are to rocks at loc 65, white bands, some reddish-brown bands dips ~~str~~ abt N330(m) dip west at 40°

Near S.W. part of main eastern mass, dips are abt 60° to south

At loc. marked 21 on photos dips are south at abt 30°

At headland and island marked 22 on photos, dips are to coast at abt 60°

Dips again about 60° towards coast in S.E. part of main western mass

Strike and dip [illegible] fairly regular. Rocks look like those further to north east from hills, but less light coloured rock mainly brownish colour; seem to be more massive dark bands. Rock around cairn seems to be mainly sandy coloured rock not very banded, though some banding, not ~~so~~ prominent exists. Mainly big massive dark rock.

127A 69280111
67°36'S 62°52'E

B 69280112

C 69280113

3/3/69

Waiwaiu age det.

661
+29
690 1. A 100' N of Northwestern wickiup.
127 A Impressed ware, well
itd. Shin sheen 10 ft to
east. Gamble ensloth
6 ft to NE, few other sherds
around.

B. 10 ft to west. Sim ware.
2 obsidian flakes 1 ft to south
Shin sheen 8 ft to south
A few scattered sherds

C. 30 ft NW of A. Typical
ware, flake-wind 4 ft to
SE., a few scattered sherds.

Bearings from A ☆

IR 128 A 64280114

near mast 241° M.
S. front of hanger 121° M
SW corner radio hut 180° M.
Cairn 258° M. (35'/point).

Declination 62° W 1

West Armtrig 67° 36' 07.02" S
62° 51' 47.26" E

662 Spec 128
A Bearing to northern most
245° M
South front of hanger 124° M
Cairn 241° M
SW corner radio hut 183° M
Plot 20 A east of highest point
of ridge.

IR 128 B 6928 0115

IR 128 C 6928 0116

Typical rock, as at site but more ferromagnesian than most. Cg magnetite aggregates on slickensided joint, 20 cm wide. Horizontal joints 2/3 - 1 meter apart

B. 20 ft to east, with magnetite. Xenolith in second joint 1 cm. to N.

C. Xenolith, 1 m long and 30 cm wide lenticular sharp margin against granite long axis typical rock, elongated N-S to E-W. Thus 5 m W of A.

IR128D 6Q280117

IR128E 6Q280118

D. 10 m NW of A, typical
rock. Dip 5° SW. 2 m
to south. Several
other joints oriented
perp to E 3 m to north.

E. 10 m NW of A
[illegible] rock, top of
sandstone 30 cm to north.
Straight perp joint 3 m
to north, 10 cm wide,
[illegible] to west of
[illegible], wet.

129A 6928 0119

129B 6928 0120

Sept 17 4

663. A Bldg ENE
north west 225°M.
Cairn 221°M
E. front of house 129°
SW corner radio hut 125°

hut is on crest of ridge.

Rain this (Sun) slightly
cloudy + wind variable
Clear, expects to stay
Im Clear.
Lovely small sun
around.

B. 20 A to SSW. Unpleasant
Peg - Bare ridge on which
1½ m to summit.

129C 69280121

129D 69280122

C. 10m NNW of A,
[illegible] Deg. 5cm
Well 1 m-D -which
[illegible] flow
flow [illegible].

D 18 m to N.
[illegible]

4/3/69

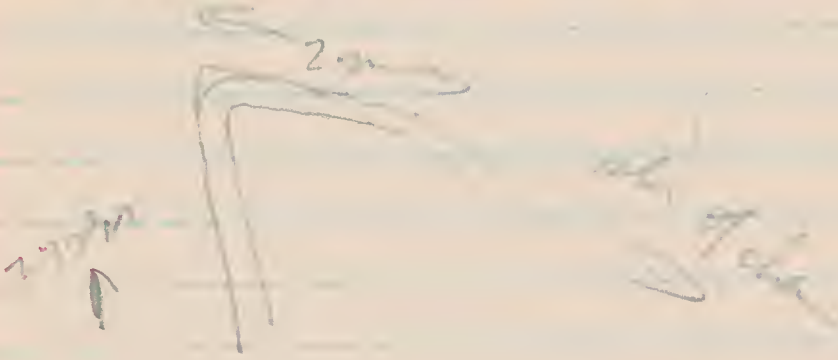
664. Spec 130
A Looking to
Mast 229°M
C/front of hanger 143°M
S/E. corner of hut 194°M

Contact of sham and
s/plate dyke
Dyke 20 cm wide, sharp
contact c sham, straight
trend 117°, V
Dyke cont. within sham
down main, some
cavern within it, and
scattered fold fibres
- like those in sham but
less [illegible]
dyke is not found on hut

130A 6928 0123

130B 6928 012X

50 m. of west c. d. [illegible]
Change dim, [illegible]



2 m. bars again paid to
[illegible], becomes indistinct
and [illegible] to dist end after
another 2 m.
Not clear what happens at
east end of dyke, but appears
[illegible] to have cut.

Spec A of dyke

Spec B of [illegible] chert
in the [illegible] Tuff

130B 6928 0125

130D 6928 0126

-typical house.

Rather vague thinking about
size, materials. Time
to work out styles and
a cultural system.

c 10 m N of NTS
typical house
plug in wide house
and 2 m to west, and
split with pitched roof
skeleton, 2 m to north.

D 10 m E of NTS
typical house
2 villages, one around
with one about the size
of 4 in NTS

Note

Location of radio mast, cairn, radio hut and hangar are shown on

"Mawson station development plan"

Drawing no 2/63/25.

Photos 8 to 130
19/8/22

666 Apr 132

Dyke. Running to

Mast 229°M
Entrance 142°M
Redoubt, Cen. 192

Dyke line — 3 m wide
Wind. 285° ✓

Working standing part to
margin of the dish,
then a reckon 2 in
width of cg of + fld
Long jump, hurs + plenty
under Rpt.
Control chan ship.
Last ma in not struck
but indications in the
chan (Photo ch + 2 m)

198/22 86/130

132 A 69280128

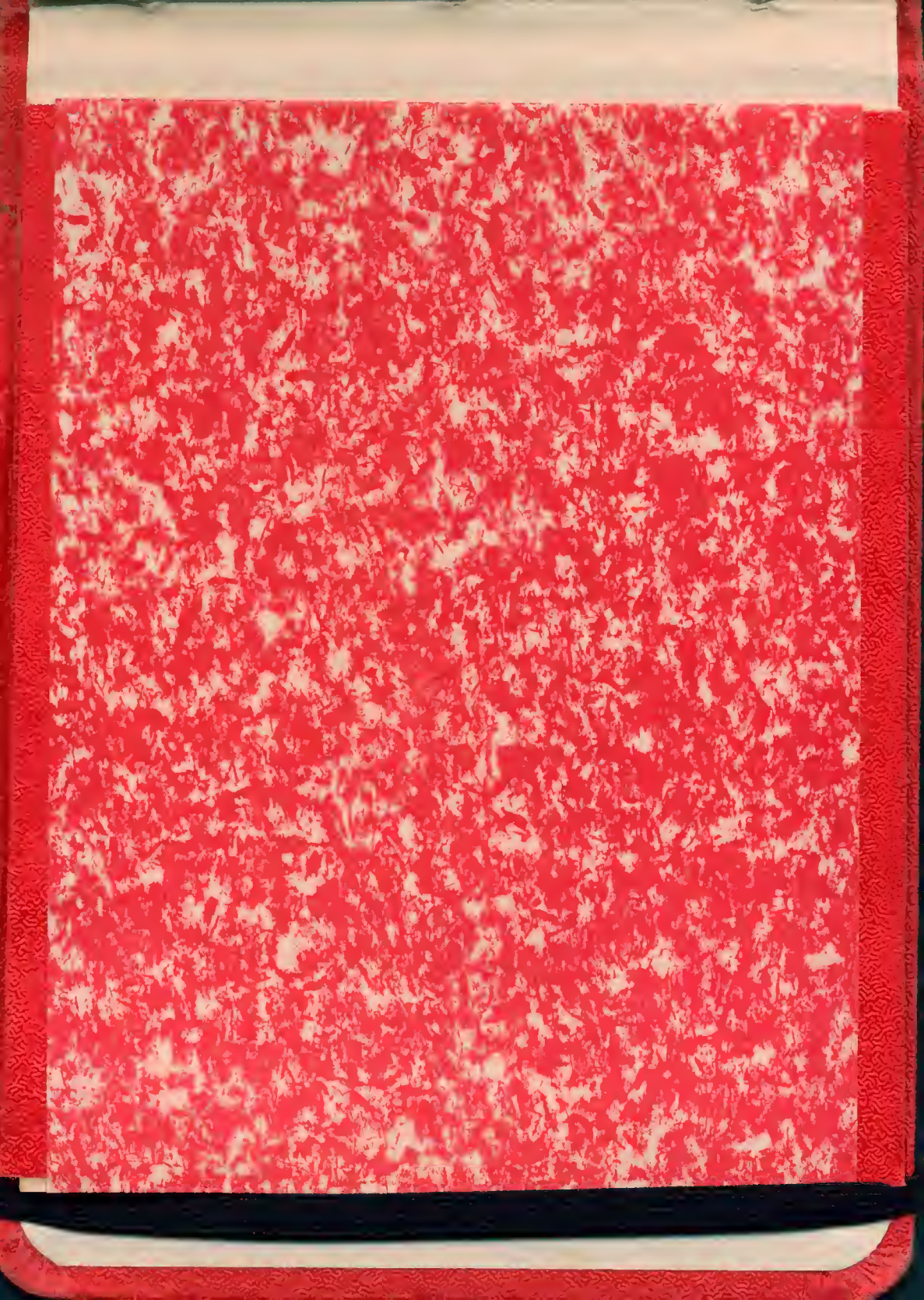
132 B 69280129

[illegible]

Rd
Appl 172 A

Br when Appl 172 B
[illegible] 25 m D West
of the Rd [illegible], but
also with a [illegible]

665. Smooth, concrete
+ 2 wide, concrete path
of chain, with five
[illegible] Bearing of path
length, first 60°
E (mag).
Bearing [illegible] on 665 is
004° M. first 10 m.
Length of [illegible] of 665
is 2700 M.
Appl for [illegible]

131 69280127

Sun is shining. [illegible]
a cutted [illegible] purple,
not continuous upon [illegible]
diameter, divided [illegible]
margins sharp against
[illegible]. Apple fleur
[illegible] from which only unlike
Apple 131.